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### Claims

1. A barrier coating composition characterized in that it comprises a  
5 polymeric material and at least one inorganic flake material.
2. A barrier coating composition as claimed in claim 1, characterized in  
that the polymeric material is present in an amount of 50 to 99 % by  
10 weight.
3. A barrier coating composition as claimed in claim 1 or 2,  
characterized in that the inorganic flake material is present in an  
amount of 1 to 50 % by weight.
- 15 4. A barrier coating composition as claimed in at least one of the  
preceding claims, characterized in that the particle thickness of the  
inorganic flake material is preferably less than 1.0 µm.
5. A barrier coating composition as claimed in at least one of the  
20 preceding claims, characterized in that the average particle size of  
the inorganic flake material is in the range of 1 to 1000 µm.
6. A barrier coating composition as claimed in at least one of the  
preceding claims, characterized in that the inorganic flake material  
25 are glass flakes.
7. The use of a barrier coating composition as claimed in at least one of  
the preceding claims in a barrier coating layer of Organic Field effect  
transistors, Liquid crystal displays, OLED displays, flexible displays,  
30 displays of TV screens, photovoltaic cells and lithium batteries.
8. A device comprising at least one barrier coating layer, characterized  
in that the at least one barrier coating layer comprises a barrier  
coating composition as claimed in at least one of claims 1 to 6.

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9. A display comprising at least one barrier coating layer, characterized in that the at least one barrier coating layer comprises a barrier coating composition as claimed in at least one of claims 1 to 6.
- 5        10. A barrier coating formulation comprising
  - a) a polymeric material and/or a polymerizable material,
  - b) at least one inorganic flake material and
  - c) at least one organic solvent.

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